

## CLAIMS

What is claimed is:

1. A composition comprising a mixed cell culture comprising MDCK cells and one or more of A549 cells and H292 cells.

5 2. The composition of Claim 1, wherein said mixed cell culture comprises MDCK cells and A549 cells.

3. The composition of Claim 1, wherein said mixed cell culture comprises MDCK cells and H292 cells.

10 4. The composition of Claim 1, wherein said mixed cell culture comprises MDCK cells, A549 cells, and H292 cells.

5. A method for detecting influenza virus, comprising:

1) providing:

a) mixed cell culture comprising MDCK cells and one or more of A549 cells and H292 cells; and

15 b) a sample;

2) inoculating said mixed cell culture with said sample to produce an inoculated culture; and

3) detecting the presence of influenza virus in said inoculated culture.

20 6. The composition of Claim 5, wherein said influenza virus comprises influenza A virus.

7. The composition of Claim 5, wherein said influenza virus comprises influenza B virus.

25 8. The composition of Claim 5, wherein said influenza virus comprises influenza A virus and influenza B virus.

9. The composition of Claim 5, wherein said mixed cell culture comprises MDCK cells and A549 cells.

10. The composition of Claim 9, wherein said method further comprises detecting the presence of one or more of respiratory syncytial virus (RSV),  
5 adenovirus, parainfluenza 1 virus, parainfluenza 2 virus, parainfluenza 3 virus, and metapneumovirus.

11. The composition of Claim 5, wherein said mixed cell culture comprises MDCK cells and H292 cells.

10 12. The composition of Claim 11, wherein said method further comprises detecting the presence of one or more of respiratory syncytial virus (RSV), adenovirus, parainfluenza 1 virus, parainfluenza 2 virus, parainfluenza 3 virus, and metapneumovirus.

13. The composition of Claim 5, wherein said mixed cell culture comprises MDCK cells, A549 cells, and H292 cells.

15 14. The composition of Claim 13, wherein said method further comprises detecting the presence of one or more of respiratory syncytial virus (RSV), adenovirus, parainfluenza 1 virus, parainfluenza 2 virus, parainfluenza 3 virus, and metapneumovirus.

20 15. A method for producing influenza virus, comprising:  
1) providing:  
a) mixed cell culture comprising MDCK cells and one or more of A549 cells and H292 cells; and  
b) a sample; and  
2) inoculating said mixed cell culture with said sample to  
25 produce an inoculated culture, wherein said inoculated culture produces influenza virus.

16. The method of Claim 15, wherein said influenza virus comprises influenza A virus.

17. The method of Claim 15, wherein said influenza virus comprises influenza B virus.

18. The method of Claim 15, wherein said influenza virus comprises influenza A virus and influenza B virus.

5 19. The method of Claim 15, wherein said mixed cell culture comprises MDCK cells and A549 cells.

10 20. The method of Claim 19, wherein said method further comprises producing one or more of respiratory syncytial virus (RSV), adenovirus, parainfluenza 1 virus, parainfluenza 2 virus, parainfluenza 3 virus, and metapneumovirus.

21. The method of Claim 15, wherein said mixed cell culture comprises MDCK cells and H292 cells.

15 22. The method of Claim 21, wherein said method further comprises producing one or more of respiratory syncytial virus (RSV), adenovirus, parainfluenza 1 virus, parainfluenza 2 virus, parainfluenza 3 virus, and metapneumovirus.

23. The method of Claim 15, wherein said mixed cell culture comprises MDCK cells, A549 cells, and H292 cells.

20 24. The method of Claim 23, wherein said method further comprises producing one or more of respiratory syncytial virus (RSV), adenovirus, parainfluenza 1 virus, parainfluenza 2 virus, parainfluenza 3 virus, and metapneumovirus.

25 25. A method for detecting metapneumovirus, comprising:  
1) providing  
a) a mixed cell culture comprising MDCK cells and A549 cells; and

- 5
- b) a sample;
  - 2) inoculating said mixed cell culture with said sample to produce an inoculated culture; and
  - 3) detecting the presence of metapneumovirus in said inoculated culture.

26. The method of Claim 25, wherein said method further comprises detecting influenza virus.

27. The method of Claim 26, wherein said influenza virus comprises influenza B virus.

10 28. The method of Claim 26, wherein said influenza virus comprises influenza A virus.

29. The method of Claim 26, wherein said influenza virus comprises influenza A virus and influenza B virus.

15 30. The method of Claim 25, wherein said method further comprises detecting the presence of one or more of respiratory syncytial virus (RSV), adenovirus, parainfluenza 1 virus, parainfluenza 2 virus, and parainfluenza 3 virus.

31. The method of Claim 25, wherein said mixed cell culture further comprises H292 cells.

20 ~~32.~~ The method of Claim 31, wherein said method further comprises detecting the presence of one or more of respiratory syncytial virus (RSV), adenovirus, parainfluenza 1 virus, parainfluenza 2 virus, and parainfluenza 3 virus.

33. A method for producing metapneumovirus, comprising:

- 25
- 1) providing
    - a) a mixed cell culture comprising MDCK cells and A549 cells; and
    - b) a sample;

- 2) inoculating said cultured cells with said sample to produce an inoculated culture, wherein said inoculated culture produces metapneumovirus.

5           34.     The method of Claim 33, wherein said mixed cell culture further comprises H292 cells.